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APOLLO BEST BLOOM
—and—
APOLLO-KEYSTONE
Copper Steel
Galvanized Sheets





APOLLO BEST BLOOM —and— APOLLO-KEYSTONE *Copper Steel Galvanized Sheets*



FOURTH EDITION

American Sheet and Tin Plate Company

General Offices: Frick Building, Pittsburgh, Pa.

DISTRICT SALES OFFICES

Chicago Cincinnati Denver Detroit New Orleans New York Philadelphia Pittsburgh St. Louis
Export Representatives: United States Steel Products Company, New York City
Pacific Coast Representatives: United States Steel Products Company, San Francisco, Los Angeles, Portland, Seattle



Apollo Best Bloom and Apollo-Keystone Copper Steel Galvanized Sheets Formed Roofing and Siding Products



*Apollo Best Bloom Galvanized Sheets
Gauges 10 to 30 inclusive.*



Apollo-Keystone Trade Mark.

Culvert Stock can be furnished in flat sheets No. 10 Gauge and lighter; in corrugated No. 10 Gauge and lighter, with Standard $2\frac{1}{2}$ inch corrugations; and No. 12 Gauge and lighter, with 3 inch corrugations. We are prepared to curve No. 12 Gauge and lighter to full circles 12 to 45 inches in standard $2\frac{1}{2}$ inch corrugations, 26 and $27\frac{1}{2}$ inches wide; and in standard $2\frac{1}{2}$ and 3 inch corrugations, to half circles in any radius suitable for culverts. Write for full particulars.



*Apollo Best Bloom Galvanized Roofing
Gauges 16 and lighter.*

Apollo-Keystone Copper Steel Galvanized Culvert and Flume Stock, Etc.

When Keystone Copper Steel is used for the base sheet—



—The Keystone symbol will be included in the brand.

APOLLO—"A product without a peer"



Science and research add
to Nature's product.

KEYSTONE
COPPER STEEL

The Copper-Steel alloy gives
added rust-resistance.



Apollo Best Bloom

Galvanized Sheets—the *original* Apollo, manufactured continuously since 1884. These sheets are prime favorites and are universally recognized for their uniformity, fine working quality, and good galvanizing. Imitations have come and gone, but APOLLO BEST BLOOM maintains its enviable reputation with particular buyers and users in all parts of the world.

APOLLO BEST BLOOM Galvanized Sheets are produced under the very best conditions and are manufactured from the best materials by skilled workmen. The coating is uniform, thoroughly protecting the base sheet, the final inspection critical and exacting; hence the substantial and satisfactory service which is and always has been characteristic of this well known product.

Apollo-Keystone

Copper Steel Galvanized Sheets possess an *added* degree of durability through the use of an alloy material known as KEYSTONE COPPER STEEL. The rust-resisting properties of this alloy have been proved by actual service and exposure tests extending over a number of years. The superiority of Copper Steel in retarding corrosion is a well established fact.

Many independent tests with this material when exposed to the action of time and weather, have also demonstrated conclusively that this Copper Steel alloy outlasts both pure iron and steel of regular analysis. We, therefore, use Keystone Copper Steel for the base of our APOLLO-KEYSTONE Galvanized, which we recommend unreservedly for culverts, tanks, flumes, roofing, etc.

Apollo-Keystone Galvanized for Culverts and Underground Uses

For all uses bringing galvanized sheet metal in direct contact with moist or wet soil, it is important that the material combine both good galvanizing and a *highly rust-resistant* base metal. This explains why APOLLO-KEYSTONE Galvanized Culvert Stock is unequaled. The experience of culvert manufacturers and users has established the fact that this material gives superior service and durability.

One of the most ruinous and destructive uses to which sheet metal can be put is for the construction of septic vaults underground. A leading maker of these vaults states that after careful tests and experiments "Keystone Copper Steel was selected because we found it possessed rust-resisting qualities not found in other steels. After ten years of use of this material we still retain the same opinion." This is the experience of users everywhere.



Test showing an 11½-ton roller resting on two Culverts made from Apollo Galvanized Sheets.



Stone arch which broke under weight of threshing machine—and required 6 men 24 hours to extricate same.



Two Apollo Galvanized Culverts replacing above stone arch, in Pike Township, Kansas. Now safe and strong.



Illustration of facility with which sheet metal Culverts are handled and transported. An important factor.

Irrespective of the design of Culvert you select, the material should be APOLLO-KEYSTONE.



Apollo Galvanized Culvert installed under roadbed of D. F. & S. Ry., near King Road, Michigan, with excellent service results.



Flat Bottom Culvert made from Apollo Galvanized, which gave heroic service during the Ohio floods.



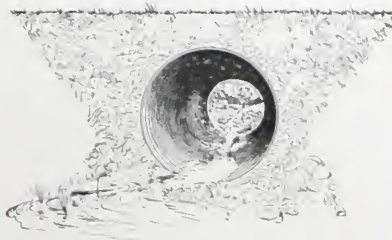
Two five-foot Apollo Galvanized Culverts in Custer Township, Sanilac County, Michigan, showing hard service conditions.



Three 48-inch No. 14 Gauge Apollo Keystone Culverts, intake end, on Colorado State Highway No. 1—about thirty miles south of Pueblo. Those were sold in Sept. 1916, and are still in first class condition. The location is swampy, with always more or less water.



Apollo Galvanized Culvert under 32 foot fill.



30-inch Culvert on the State Fair Grounds, Fargo, N. Dakota.

APOLLO-KEystone insures lasting service and satisfaction—it has no substitute.



Corrugated Culverts of large dimensions made from Apollo Galvanized.



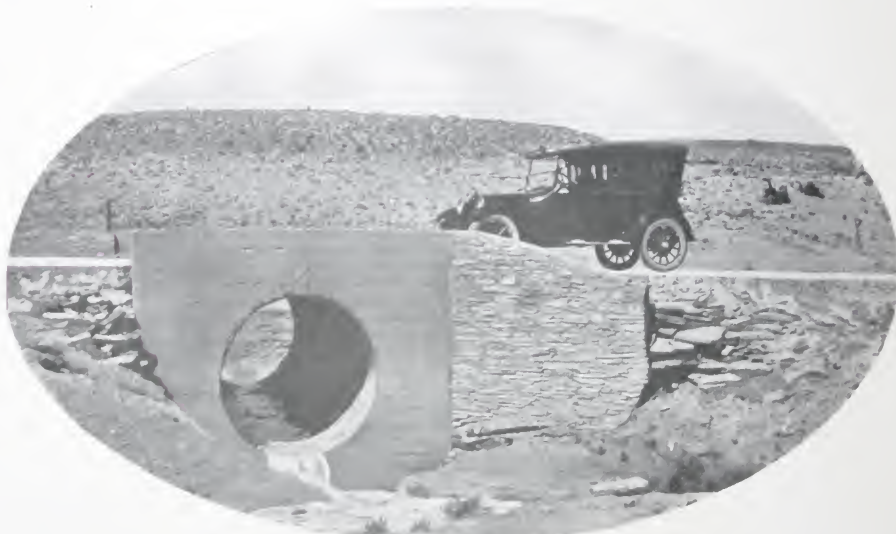
Apollo Culverts make better roadways.



Carload of Corrugated Culverts made from Apollo Galvanized.



Galvanized Steel Fence Post, in perfect condition after eleven years' service.



Apollo-Keystone Copper Steel Culvert installed 14 miles west of Pueblo, Colorado, on Canon City Road, State Highway No. 6.



30-Inch Culvert, six inches below roadbed



Four-foot Apollo Galvanized Culvert which replaced a ten-foot wooden bridge in roadway near Alpena, Mich.



Culvert near Altus, Oklahoma, four inches below tracks.

As a practical Culvert material, APOLLO-KEYSTONE gives maximum service at minimum cost.



Two 48-in. 20-ft. Apollo Culverts in Carrolton Township, Saginaw County, Mich., installed with concrete.



Apollo Culvert ready for fill.



Apollo Corrugated Culverts—showing advantages in storing various sizes.



Test holes drilled in bottom of Galvanized Fence Post to confirm quality by analysis.



Apollo-Keystone Copper Steel Culverts ready for installation in Crowley County, in eastern Colorado.



Apollo Galvanized Culverts are unexcelled for strength.



Four-foot Apollo Galvanized Culvert under roadbed of B. C. G. & A. Ry., Alpena Co., Mich.



Apollo Galvanized Culverts are supplied to meet every requirement.

Culverts made from APOLLO-KEYSTONE Culvert Stock are strong, durable, and trustworthy.



Apollo Galvanized Culverts are easy to transport and readily installed.

Well made steel alloyed with copper will give maximum rust-resistance. This has been decisively determined by a host of independent service tests, and also by the official tests of the American Society for Testing Materials. These scientific and unbiased findings prove conclusively the excellence of copper-steel in resisting corrosion.

Keystone quality assures to engineers, roadbuilders and tax-payers, a material that will give the greatest degree of permanence when installed underground.

The superiority of copper steel is further attested by the action of the Jurors of the Panama-Pacific International Exposition, who awarded APOLLO-KEYSTONE the Grand Prize (highest award) for *general excellence* and *greatest merit*.



Apollo-Keystone Copper Steel Culverts used for re-construction work on the famous La Bajada Hill, on the trans-continental Sante Fe Trail Road. New Mexico State Highway No. 1.

NOTE:—"La Bajada" is Spanish for "The Descent" or "Drop." The Highway at this Hill drops about 800 feet in a distance of 1½ miles, and is one of the marvels of road-building in America, being cut out of volcanic lava in the face of a steep precipice. It has 23 hair-pin turns, some on a very heavy grade, but in spite of this the road is perfectly safe, as all the turns have been widened and some of them eliminated in the relocation, and retaining walls built at dangerous points.

For all underground uses, APOLLO-KEYSTONE has proved itself a material *par excellence*.



Apollo Galvanized Culverts are handled with the minimum of expense and labor.

The advantages of Galvanized Metal Culverts are many. They meet the test of time, and when properly installed, have proved to be wholly practical, and in many cases exceptionally suited to better roadway construction. We mention the following outstanding features:

- Easily and rapidly installed—requiring no repairs.
- Strength to resist collapsing loads.
- Ability to be rapidly and economically transported.
- Low expense in bridging gullies and small streams.
- Impervious to damage by frost or freshets.
- Adapted for service in all parts of the country.
- Meets successfully every demand that can be made of a good culvert material.
- Affords permanent improvement to railway and roadway systems at *low cost*.



Apollo Galvanized Culvert installed under roadway, after lying nine years neglected in a barnyard.



Apollo Galvanized Culvert under muck road, giving satisfactory service without end walls.



Culvert made of Apollo Galvanized installed near Emporia, Kansas, 9 years ago, which is still giving good service.



Apollo Galvanized Culvert under roadbed of D. B. C. & W. Ry. installed near Decker, Mich.

The consumption of APOLLO-KEYSTONE Galvanized Culvert Stock is increasing steadily. Culvert manufacturers have been using this material in practically all parts of the United States with splendid success. Demand this material in your Culverts and secure the highest degree of strength, service, and satisfaction.

Galvanized Sheets for Flumes, Tanks, Cisterns and Silos

For above purposes, galvanized sheets are in growing demand because of the many desirable features they offer over other materials. Lasting wear and satisfactory results are assured if APOLLO or APOLLO-KEYSTONE quality is used. These sheets have a well earned reputation for endurance and trustworthiness for all uses—under the ground or above it.

In the mining, engineering, and irrigation fields, and in the Reclamation Service, APOLLO-KEYSTONE Galvanized Sheets are giving most excellent results. The largest flume in the United States is constructed of this material. Experience will prove to you that it is the part of economy to use APOLLO-KEYSTONE when long service, strength, and durability are important factors.



Section of the largest flume in the United States, near Twin Falls, Idaho, 15 ft. 8 in. diameter. Made from Apollo-Keystone Galvanized Sheets.



Flume erected at Kimball, Nebraska, in 1901. In perfect condition when photographed after 12 years.



Apollo Galvanized Tank at West Fairview, Pa.,—after 17 years of service.



Tanks made from Corrugated and Curved Apollo Galvanized Sheets.

APOLLO-KEYSTONE meets every demand that can be made of good Galvanized Sheets.



Tank erected near Lamar, Colorado, from Apollo Galvanized Sheets, and when photographed had given 20 years good service.



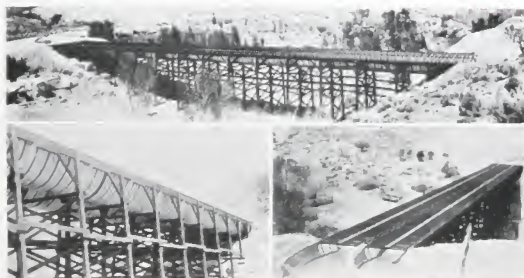
Apollo Corrugated Storm Cellar, before installation.



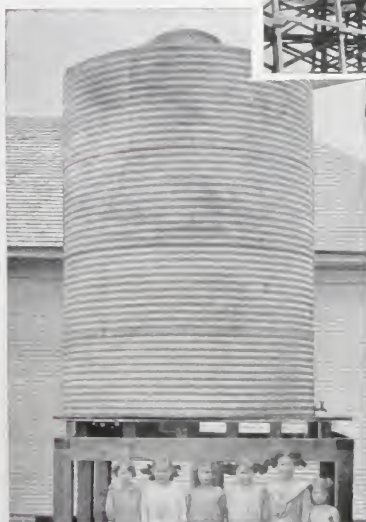
Tank made from Apollo Galvanized Sheets erected on office building of T. & P. Ry. In continuous use for 19 years, when photographed.



Silo made from Apollo Galvanized Flat Sheets. Galvanized Sheet Metal Silos are in growing favor and demand.



Large Double Flumes constructed from Apollo Galvanized.



Apollo Galvanized Tank at Buckner Orphans' Home, Dallas, Tex. In use for 22 years.



Three Silo units formed from Apollo Galvanized



Silo near Okemah, Okla., made of Apollo Galvanized Sheets, which has given superior service.

COPPER STEEL SHEETS are designated by the KEYSTONE included in the regular brand.

Apollo Galvanized Roofing and Siding Products

The problem of securing a practical building material which is fireproof, durable, adapted to various types of buildings, and reasonable in cost—is a very important one. Apollo Roofing and Siding meet these requirements perfectly.

Our products are carefully manufactured in every detail, and easily applied, and neat in appearance — and are especially adapted for manufacturing plants, smelters, warehouses, elevators, sheds, and farm buildings. The Apollo trade-mark assures the user of products that are strictly standard, true to gauge, and full weight. Sold by all leading metal merchants and distributors.

APOLLO Roofing and Siding Products are formed from our well known APOLLO BEST BLOOM Galvanized Sheets. Also supplied from APOLLO KEYSTONE quality (with Keystone Copper Steel base), as indicated by the Keystone design included in the brand.



One of the evidences of perfect service of Galvanized Standing Seam Roofing. Roof erected at Hammond, Ind., in 1898, and when photographed had given 15 years' service, with no repairs.



Pier No. 39, North River, C. R. R. of N. J. — erected 1912. Apollo Keystone Sheets were used in its construction.



Coal Tipple and Plant at Nanaimo, British Columbia, covered with Apollo Keystone Galvanized Sheets

APOLLO Roofing Products—carefully manufactured, easily applied, sold by weight.



Apollo Galvanized Sheets used for Silos, Tanks, Roofing, and Siding on Belle Isle Dairy Farm at Oklahoma City, Oklahoma



Sheet Metal Hood which required very frequent renewals, owing to severe service conditions



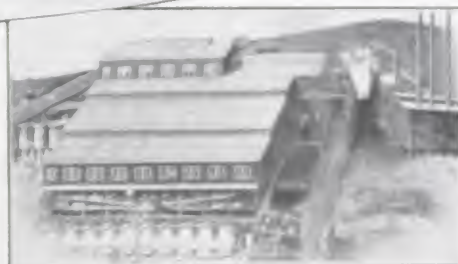
Galvanized Roof at Ironton, Ohio, still good after 12 years of service



The Sheet Metal Hood shown opposite has given exceptional service since equipped with Apollo-Keystone



Apollo Roofing and Siding are specially adapted for the construction of Shops and Manufacturing Plants



You can insure both quality and economy by specifying APOLLO and APOLLO-KEYSTONE.

Apollo Galvanized Sheets for General Sheet Metal Work

The superiority of APOLLO Galvanized Sheets for general shop and construction work binds together more satisfied sheet metal workers than all other makes. These sheets combine splendid forming quality, fine appearance, uniform coating, and adaptability to every purpose for which galvanized sheets are utilized.



Great Public Cotton Warehouses and Grain Elevators, New Orleans, La. Sheet metal work of Apollo-Keystone.

APOLLO BEST BLOOM has been the leader since 1884, and is well known for its ductility, splendid coating, and general excellence.

APOLLO-KEYSTONE grade embodies all the high qualities of the APOLLO brand, together with a Keystone Copper Steel alloy base, which gives *added resistance to rust* and corrosion, and insures the maximum degree of satisfactory wear and permanence.

These brands are unquestionably the highest grade galvanized sheets manufactured. The proof is in the service given, and the careful maintenance of that prime quality that has made these products the standards by which all other galvanized sheets are judged.

Use APOLLO or APOLLO-KEYSTONE for Cornices, Skylights, Ventilators, Eaves Trough Conductor Pipe, Metal Sash and Frames, Spouting, Finials, Ridge Rolls and Cappings, Flashings, Utensils, Furnaces, Refrigerators, Ice Cans, and all forms of Sheet Metal Work.

Leading metal merchants sell APOLLO and APOLLO-KEYSTONE—accept no substitute.



Apollo Galvanized is specially adapted for Cornices.



Apollo Galvanized used for Patent Ventilator



All-steel portable booth or lunch house made from Apollo Galvanized Sheets.



Storage Tank made from Apollo Sheets



Jail at Warner, Oklahoma, constructed of Curved Corrugated Apollo Galvanized Sheets.



Skylight and Ventilators constructed from Apollo Galvanized Sheets



Door frames



Apollo possesses exceptional forming qualities



Structural columns

Highest quality and best known galvanized sheets manufactured—APOLLO and APOLLO-KEYSTONE

Users of Keystone Copper Steel

know from experience that this Copper Steel alloy gives greatest resistance to rust and corrosion. This is also a well established metallurgical fact, and it explains why particular buyers and users in all parts of the country now demand Keystone quality.

Important railroads use Keystone for roofing and new car construction.

The U. S. Reclamation Service, the U. S. Forestry Service, and Bureau of Public Roads use Keystone for culverts and flumes.

Prominent septic tank and vault makers use Keystone for greater durability.

Successful architects, engineers, contractors, roofers and builders use Keystone for greater rust-resistance.

Leading burial vault and casket manufacturers use Keystone for increased permanence underground.

Users everywhere favor Keystone for all purposes requiring lasting service.

Keystone Copper Steel demonstrated its excellence in the service tests of the American Society for testing Materials. Could you ask for more impartial proof?

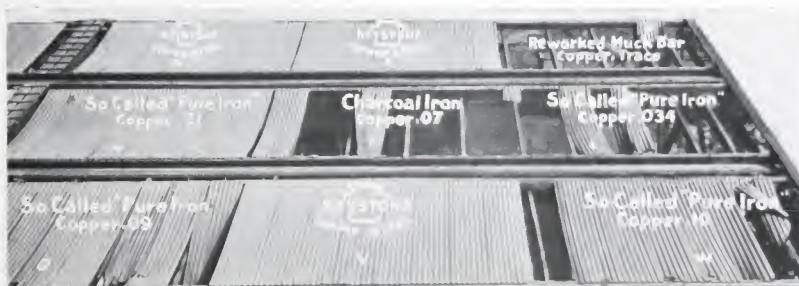


Fence constructed from concrete and Apollo-Keystone Galvanized Sheets.

Three leading features of APOLLO-KEYSTONE Galvanized—strength, adaptability, durability.

Keystone Copper Steel

is a scientific and correct combination of copper and high grade steel, thus forming a new metal or *copper-steel alloy*. This Company has given much thought and expense in its efforts to raise the standards of durability and service of sheet metal products to the highest degree. After careful research work, together with exhaustive tests and experiments, it has been conclusively determined that the greatest resistance to corrosion and rust resulting from exposure to atmospheric conditions, or the action of the elements, is secured from copper-steel alloy, as in Keystone quality.



One of a series of actual weather test roofs, covered with uncoated black sheets.

The increased durability of this material is a fact that has been proved beyond question or dispute, by a series of actual weather tests extending over a long term of years. These results have been corroborated by many independent tests conducted in all parts of the country. The illustration shown herewith is but one of many of these actual weather tests which prove the excellence of Keystone Copper Steel in actual service, and under regular service conditions.

Keystone Copper Steel is supplied in APOLLO-KEYSTONE Galvanized Sheets, also in Black Sheets, Terne Plates, and Bright Tin Plates. It is to your advantage to specify Keystone quality where long service and resistance to rust are of first consideration. Send for our booklets on Keystone Copper Steel, which treat the subject extensively, and give results of interesting tests and research work.

KEYSTONE COPPER STEEL—awarded the *Grand Prize* (highest award) at San Francisco, 1915.

Table of Weights of Apollo Best Bloom Galvanized Sheets and Apollo-Keystone Copper Steel Galvanized Sheets

STANDARD GALVANIZED SHEET GAUGE

Table showing weights per bundle without bands, square feet, sheet weight and number of sheets in one bundle.

GAUGES 10										GAUGES 21										GAUGES 22										GAUGES 23										GAUGES 24										GAUGES 25										GAUGES 26										GAUGES 27										GAUGES 28										GAUGES 29										GAUGES 30										GAUGES 31										GAUGES 32										GAUGES 33										GAUGES 34										GAUGES 35										GAUGES 36										GAUGES 37										GAUGES 38										GAUGES 39										GAUGES 40																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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Table of Weights of Apollo Galvanized Formed Products Including Apollo-Keystone Galvanized Roofing and Siding, and American Painted Products

Showing Standard Weights per Bundle (without bands) and Standard Weights per Square of various sizes and gauges.

STANDARD WEIGHTS PER BUNDLE																
PRODUCT	GAUGE No.	SHEETS Per Bundle	60 Inches Long		78 Inches Long		84 Inches Long		100 Inches Long		140 Inches Long		180 Inches Long		144 Inches Long	
			Painted	Galvanized	Painted	Galvanized	Painted	Galvanized	Painted	Galvanized	Painted	Galvanized	Painted	Galvanized	Painted	Galvanized
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